

SERIES W48
SERIES WS48
SERIES WG48
SERIES WSA48

- PUSHBUTTON SWITCHES



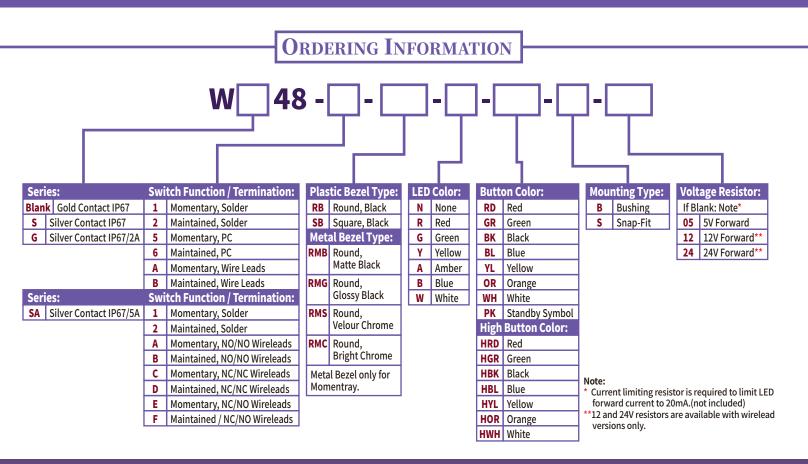
Series W48

KEY FEATURES

- Size: 12mm
- SPST-NO-DB
- Solder /PC Terminal & wireleads
- Snap Action: Momentary / Maintained
- Operation temperature: -40 ~ 85°C
- Metal, Plastic bezel/ housing
- IP67 water proof
- Square and Round versions available

APPLICATIONS

- Office equipment
- Medical equipment
- Industrial machinery
- Outdoor controls
- Mass transportation
- Food processing equipment



SERIES W48 - PUSHBUTTON SWITCHES









48 SERIES

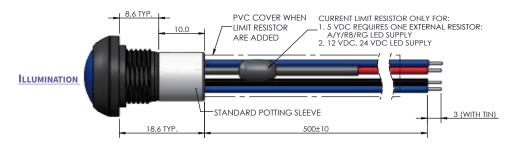


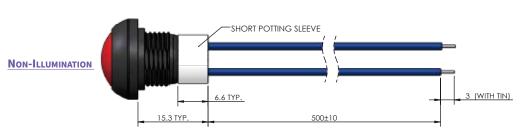




SWITCH ACTION	BUTTON TYPE	FP (mm)
MOMENTARY	NON-ILLUMINATION	8.0±0.5
	ILLUMINATION LIGHT PIPE BUTTON	7.6±0.5
	NON-ILLUMINATION HIGH BUTTON	9.9±0.5

WIRELEADS





	BUSHING MOUNT TYPE	SNAP-IN MOUNT TYPE			
RECOMMENDED PANEL CUT-OUT	Ø13.58±0.1	Ø 15.30 Ø 15.15			
PANEL THICKNESS	0.020~0.118" [0.5~3.0 mm]	0.051~0.118" [1.5~3.0 mm]			
NUT TORQUE FORCE	Max. 5.2 lb-in [6 kgf-cm]				



MECHANICAL CHARACTERISTICS

- Switch Circuitry: SPST-NO-DB (Form X)
- Button Travel (Nominal): 0.090 inches [2.30mm]
- Operating Force (Nominal): 3N [306g]
- Contact Bounce (Nominal): 1ms
- Contacts Material: Gold Plated
- Panel Thickness:
 Bushing Mount:
 0.020" 0.118" [0.5 3.0mm]
 Snap-In Mount:
 0.051" 0.118" [1.5 3.0mm]
- Nut Torque Force: Max 5.2 lb-in [6 kgf-cm]
- Current Ratings (Nominal):

 48(Momentary)

 250mA @ 12VDC, 100k Cycles
 150mA @ 28VDC, 150k Cycles
 100mA @ 48VDC, 100k Cycles
 10mA @ 12VDC,1 Million Cycles
 48 (Maintained)
 50K Cycles Nominal

ENVIROMENTAL SPECIFICATIONS

- Operating Temperature: -40°F to +185°F (-40°C to +85°C)
- Water Proof: IP67 (Front Panel)

ELECTRICAL SPECIFICATIONS

- Dielectric Strength: 1,000VAC
- Insulation Resistance: 1G Ω
- Contacts Resistance: 50 mΩ max. (Non-Wirelead) 250 mΩ max. (Wirelead)
- Wireleads: UL Style 1007 26 AWG, Stranded



SERIES W48 - PUSHBUTTON SWITCHES

MECHANICAL CHARACTERISTICS

- Switch Circuitry: SPST-NO-DB (Form X)
- Button Travel (Nominal):0.090 inches [2.30mm]
- Operating Force (Nominal): 3N [306g]
- Contact Bounce (Nominal):
 1ms
- Contacts Material: Silver
- Panel Thickness:

 Bushing Mount:
 0.020" 0.118" [0.5 3.0mm]

 Snap-In Mount:

 0.051" 0.118" [1.5 3.0mm]
- Nut Torque Force: Max 5.2 lb-in [6 kgf-cm]
- Current Ratings (Nominal):
 G48(Momentary)
 2A @ 24VDC, 40k Cycles
 2A @ 250VAC, 40k Cycles
 G48 (Maintained)
 2A @ 24VDC, 40k Cycles
 2A @ 250VAC, 40k Cycles
 SA48
 5A @ 28VDC, 25k Cycles

ENVIROMENTAL SPECIFICATIONS

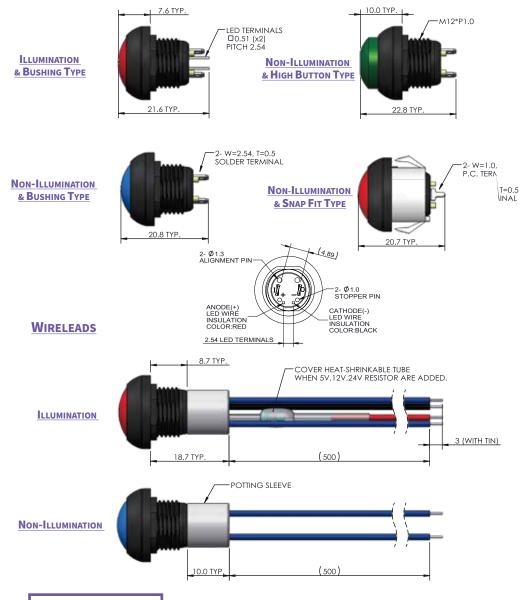
5A @ 125/250VAC, 25k Cycles

- Operating Temperature: -40°F to +185°F (-40°C to +85°C)
- Water Proof: IP67 (Front Panel)

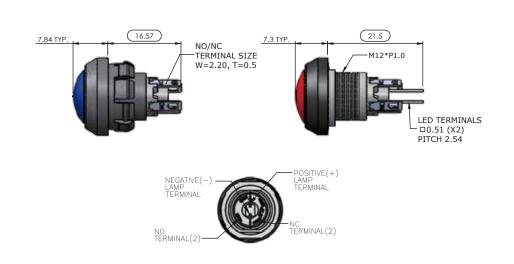
ELECTRICAL SPECIFICATIONS

- Dielectric Strength: 1,000VAC
- Insulation Resistance:1G Ω
- Contacts Resistance:
 50 mΩ max. (Non-Wirelead)
 250 mΩ max. (Wirelead)
- Wireleads: UL Style 1007 26 AWG, Stranded

G48 SERIES



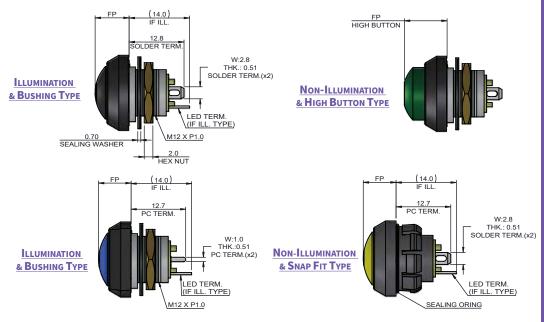
SA48 SERIES



Series W48 - Pushbutton Switches

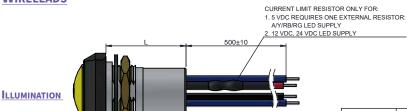


S48 SERIES



SWITCH ACTION	BUTTON TYPE	FP(mm)	SWITCH ACTION	BUTTON TYPE	FP(mm)
MOMENTARY	NON-ILLUMINATION	8.0±0.5	MAINTAINED	NON-ILLUMINATION	6.5±0.5
	ILLUMINATION LIGHT PIPE BUTTON	7.6±0.5		ILLUMINATION LIGHT PIPE BUTTON	6.0±0.5
	NON-ILLUMINATION HIGH BUTTON	9.9±0.5		NON-ILLUMINATION HIGH BUTTON	8.4±0.5

WIRELEADS



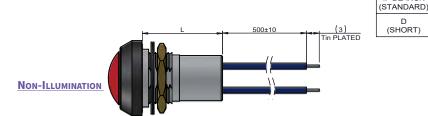
SLEEVE

IF BLANCK

D (SHORT)

L(mm)

18 6



MECHANICAL CHARACTERISTICS

- Switch Circuitry: SPST-NO-DB (Form X)
- Button Travel (Nominal): 0.090 inches [2.30mm]
- Operating Force (Nominal): 3N [306g]
- Contact Bounce (Nominal):
- Contacts Material: Silver
- Panel Thickness: **Bushing Mount:** 0.020" - 0.118" [0.5 - 3.0mm] **Snap-In Mount:** 0.051" - 0.118" [1.5 - 3.0mm]
- Nut Torque Force: Max 5.2 lb-in [6 kgf-cm]
- Current Ratings (Nominal): S48 (Momentary) 10mA @ 12VDC, 200k Cycles

S48 (Maintained) 20k Cycles Nominal

ENVIROMENTAL SPECIFICATIONS

- Operating Temperature: -40°F to +185°F (-40°C to +85°C)
- Water Proof: IP67 (Front Panel)

ELECTRICAL SPECIFICATIONS

- Dielectric Strength: 1,000VAC
- Insulation Resistance: 1G O
- Contacts Resistance: 50 m Ω max. (Non-Wirelead) 250 m Ω max. (Wirelead)
- Wireleads: UL Style 1007 26 AWG, Stranded